

## ABSTRACT

In general, the disclosure is directed to a method of creating a middleware adapter in a factory. In one aspect, the method includes designing, developing and testing the adapter. The middleware adapter is designed with a designer and a quality controller to produce a design. Designing the middleware adapter includes reference to a knowledge base. The design is developed a developer and the quality controller to produce a requested adapter. The requested adapter is tested with a tester and the quality controller to produce a completed middleware adapter. In another aspect, the method includes analyzing a request for an adapter, designing the adapter, and developing the design. Analyzing the request includes determining whether the request is for a new adapter or for modifications to an existing adapter. Designing the adapter includes designing with a designer and a quality controller to produce a design, where the designing includes reference to a knowledge base. Developing the design includes developing with a developer and the quality controller to produce a requested adapter, where the developing includes coding the design, unit testing the requested adapter, and updating the knowledge base. Also, this aspect includes integration testing the requested adapter and system testing the requested adapter. In still another aspect, the disclosure is directed to factory for producing middleware adapters. The factory includes an assembly line for creating new middleware adapters and an assembly line for modifying existing adapters. Each assembly line includes designers, developers and testers working along the assembly line where each assembly line includes quality controllers working along with the designers, developers, and testers.